

**Table 21. Infant mortality rates for mothers 20 years of age and over, according to mother's education, detailed race, and Hispanic origin: United States, selected years 1983–2000**

[Data are based on linked birth and death certificates for infants]

<i>Education, race, and Hispanic origin of mother</i>	1983 <sup>1</sup>	1990 <sup>1</sup>	1995 <sup>2</sup>	1999 <sup>2</sup>	2000 <sup>2</sup>	1983–85 <sup>1</sup>	1986–88 <sup>1</sup>	1989–91 <sup>1</sup>	1995–97 <sup>2</sup>	1998–2000 <sup>2</sup>
Infant deaths per 1,000 live births										
Less than 12 years of education										
All mothers . . . . .	15.0	10.8	8.9	8.0	7.9	14.6	13.8	11.1	8.6	8.0
White . . . . .	12.5	9.0	7.6	6.9	6.8	12.4	11.4	9.2	7.3	6.9
Black or African American . . . . .	23.4	19.5	17.0	14.8	14.7	21.8	21.1	20.3	16.0	14.8
American Indian or Alaska Native . . . . .	14.5	14.3	12.7	11.0	10.1	15.2	16.8	13.8	11.4	10.2
Asian or Pacific Islander <sup>3</sup> . . . . .	9.7	6.6	5.7	5.4	5.9	9.5	8.2	6.9	5.8	5.7
Hispanic or Latino <sup>4,5</sup> . . . . .	10.9	7.3	6.0	5.6	5.4	10.6	9.9	7.5	5.8	5.5
Mexican . . . . .	8.7	7.0	5.8	5.5	5.2	9.5	8.3	7.1	5.6	5.3
Puerto Rican . . . . .	15.3	10.1	10.6	9.4	9.6	14.1	12.8	11.7	9.5	8.9
Cuban . . . . .	*14.5	*	*	*	*	*10.5	*9.4	*8.2	*6.7	*
Central and South American . . . . .	9.8	7.0	5.1	4.4	4.9	8.6	9.2	6.8	5.4	5.0
Other and unknown Hispanic or Latino . . . . .	9.2	9.9	7.3	7.0	7.6	10.1	10.6	10.0	7.0	7.4
Not Hispanic or Latino:										
White <sup>5</sup> . . . . .	12.8	10.9	9.9	8.9	9.2	12.6	11.8	11.0	9.6	9.1
Black or African American <sup>5</sup> . . . . .	24.7	19.7	17.3	15.1	15.0	22.6	21.6	20.6	16.3	15.1
12 years of education										
All mothers . . . . .	10.2	8.8	7.8	7.4	7.3	10.0	9.6	8.9	7.6	7.4
White . . . . .	8.7	7.1	6.4	6.0	6.0	8.5	8.0	7.2	6.3	6.0
Black or African American . . . . .	17.8	16.0	14.7	14.0	13.3	17.7	17.1	16.4	14.1	13.9
American Indian or Alaska Native . . . . .	15.5	13.4	7.9	9.0	7.8	13.4	11.6	12.3	8.5	8.7
Asian or Pacific Islander <sup>3</sup> . . . . .	10.0	7.5	5.5	5.6	5.0	9.3	7.9	7.5	5.6	5.5
Hispanic or Latino <sup>4,5</sup> . . . . .	8.4	7.0	5.9	5.3	5.0	9.1	8.3	6.8	5.8	5.2
Mexican . . . . .	6.9	6.8	5.7	5.0	4.9	7.8	8.2	6.5	5.6	5.0
Puerto Rican . . . . .	9.5	8.5	6.5	8.0	7.2	10.8	10.1	8.6	7.6	7.5
Cuban . . . . .	*6.9	*8.0	*	*	*	8.6	6.6	7.6	5.4	*3.7
Central and South American . . . . .	8.7	6.5	6.1	4.8	4.2	8.7	7.4	6.3	5.5	4.8
Other and unknown Hispanic or Latino . . . . .	8.8	7.4	6.5	6.7	5.8	8.8	7.7	7.0	6.6	6.1
Not Hispanic or Latino:										
White <sup>5</sup> . . . . .	8.7	7.1	6.5	6.2	6.3	8.3	7.9	7.3	6.4	6.3
Black or African American <sup>5</sup> . . . . .	17.8	16.1	14.8	14.1	13.5	17.9	17.4	16.5	14.2	14.0
13 years or more of education										
All mothers . . . . .	8.1	6.4	5.4	5.1	5.0	7.8	7.2	6.4	5.3	5.1
White . . . . .	7.2	5.4	4.7	4.3	4.2	6.9	6.2	5.5	4.5	4.4
Black or African American . . . . .	15.3	13.7	11.9	11.4	11.4	15.3	14.9	13.7	11.6	11.3
American Indian or Alaska Native . . . . .	12.5	6.8	5.9	7.4	6.7	10.4	8.4	8.1	6.6	7.0
Asian or Pacific Islander <sup>3</sup> . . . . .	6.6	5.1	4.4	4.0	3.9	6.7	5.9	5.1	4.1	4.1
Hispanic or Latino <sup>4,5</sup> . . . . .	9.0	5.7	5.0	4.7	4.5	7.4	7.0	5.8	5.0	4.6
Mexican . . . . .	*8.3	5.5	5.2	4.8	4.5	7.6	6.4	5.7	5.1	4.7
Puerto Rican . . . . .	10.9	7.3	6.3	6.3	6.5	8.1	6.9	7.8	6.4	6.2
Cuban . . . . .	*	*5.3	*5.3	*4.5	*4.9	5.5	5.9	4.2	4.3	4.2
Central and South American . . . . .	*7.1	5.6	3.7	3.9	3.7	7.2	7.6	5.4	4.0	3.9
Other and unknown Hispanic or Latino . . . . .	11.6	5.4	5.2	4.5	4.2	7.9	7.5	5.6	5.3	4.1
Not Hispanic or Latino:										
White <sup>5</sup> . . . . .	7.0	5.4	4.6	4.2	4.2	6.8	6.1	5.4	4.5	4.3
Black or African American <sup>5</sup> . . . . .	14.8	13.7	12.0	11.5	11.5	14.7	14.9	13.8	11.7	11.4

\* Rates preceded by an asterisk are based on fewer than 50 events. Rates not shown are based on fewer than 20 events.

<sup>1</sup>Rates based on unweighted birth cohort data.

<sup>2</sup>Rates based on a period file using weighted data (see Appendix I, National Vital Statistics System, Linked Birth/Infant Death Data Set).

<sup>3</sup>The States not reporting maternal education on the birth certificate accounted for 49–51 percent of the Asian or Pacific Islander births in the United States in 1983–87, 59 percent in 1988, and 12 percent in 1989–91. Starting in 1992 maternal education was reported by all 50 States and the District of Columbia (DC).

<sup>4</sup>Persons of Hispanic origin may be of any race.

<sup>5</sup>Data shown only for States with an Hispanic-origin item and education of mother on their birth certificates. The number of States reporting both items increased from 21 and DC in 1983–87, to 26 and DC in 1988, 45 and DC in 1989, 47 and DC in 1990–91, and 50 and DC starting in 1995 (see Appendix I, National Vital Statistics System, Birth File). The Hispanic-reporting States that did not report maternal education on the birth certificate during 1983–88 together accounted for 28–85 percent of the births in each Hispanic subgroup (except Cuban, 11–16 percent, and Puerto Rican, 6–7 percent in 1983–87); and in 1989–91 accounted for 27–39 percent of Central and South American and Puerto Rican births and 2–9 percent of births in other Hispanic subgroups.

NOTES: Data for all mothers and by race based on data for 47 States and DC in 1983–87, 46 States and DC in 1988, 48 States and DC in 1989–91, and 50 and DC starting in 1995. Excludes data for California and Texas (1983–88), Washington (1983–91), and New York (1988–91), which did not require the reporting of maternal education on the birth certificate (see Appendix I, National Vital Statistics System, Birth File). The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. National linked files do not exist for 1992–94. Data for additional years are available (see Appendix III).

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, National Linked Birth/Infant Death Data Set.